VGI FOR LOCAL DRR PLANNING: PROSPECTS AND CHALLENGES

Mapping Municipal Structures

University of the Philippines Diliman
Department of Geography
Field School - Team Rizal



















I'm Monica

UP Resilience Institute & UP NOAH President, UPRI Youth Mappers

monica.mendoza@younggeographers.org



In support of



















and our partner LGUs (Local Government Units)



















Workshop for students & LGU staff

FIELD VALIDATION

- presented the plans, rationale, and the project to each barangay
- visited residential and commercial areas to validate building footprints



















PLACES VALIDATED

- Poblacion Ibaba
- Poblacion Itaas
- Bagumbayan
- San Vicente
- Kalayaan
- San Isidro



Angono

PLACES VALIDATED

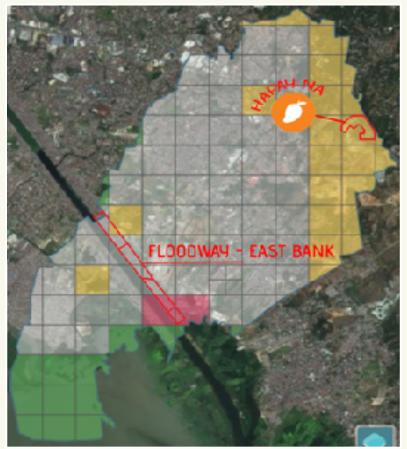
- East Bank of Floodway
- Barangay San Andres, including some parts of bermside
- Sitio San Francisco,
 Anak Pawis, and parts of
 Sitio Exodus of
 Barangay Santa Ana



Cainta

PLACES VALIDATED

- Panghulo, Batasin 1 & 2, Lambak (Brgy. San Juan)
- Hapay na Mangga (Brgy. Dolores)
- Exodus (Brgy. Sta. Ana and San Juan)



Taytay

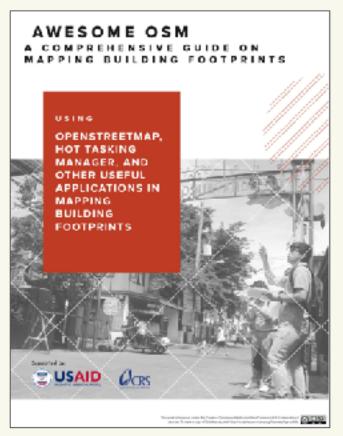
EXPERIENCES (STRENGTHS)

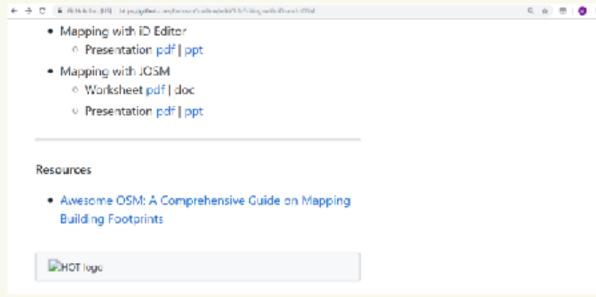
- OSM is accessible to all -- it is free and an open data, accessible through using either web, mobile or paper-based methods and/or applications
- LGUs can replicate the methodology using open and accessible tools even with minimal budget
- Partner LGUs are cooperative and dedicated to the project
- OSM data, e.g., building footprints, streets, were updated
- As a method for mapping, the use of OSM minimizes costs, but validation can be time consuming

CHALLENGES

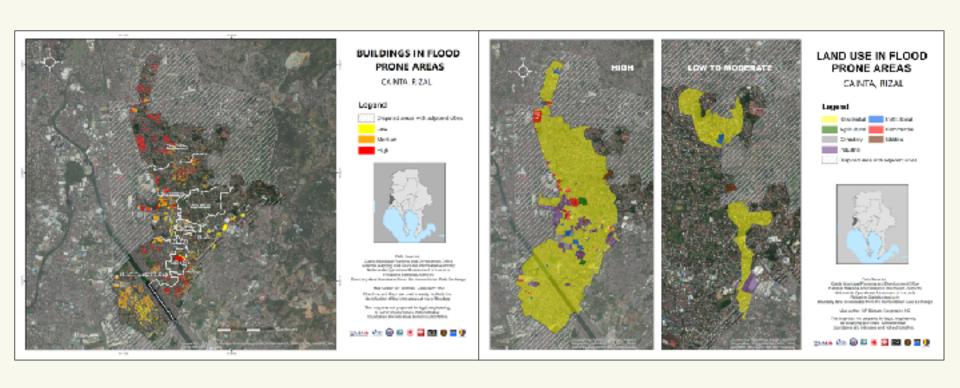
- Imaging and resources Low-resolution satellite images, clouds, and shadows that affect mapping
- Coordination with the locals, different levels of the local government - scheduling, layers of bureaucracy, miscommunication and misunderstandings
- Continuity/sustainability of project How to attain the ideal conditions: sufficient LGU funding, appreciation of OSM and its benefits, LGU initiative, mapping skills of LGU, designated GIS person who will take charge of the project

- Manual on creating building footprints subsequent commitment of CRS and HOTOSM to support the completion and international dissemination of the manual
- Hazard maps, etc.
- Project report and documentations





https://www.crs.org/our-work-overseas/research-publications/awesome-osm-comprehensive-guide-mapping-building-footprints



FIELDWORK: ON-SITE VALIDATION IN TAYTAY, RIZAL



























Georg 192 Michyear 2018 Department of Geography University of the Philippines Diliman

RECOMMENDATIONS

- Ensure clearer communication with LGUs, from the municipal/city down to the barangay level, and even with community leaders;
- More detailed delegation of tasks among volunteers;
- Longer project duration to ensure that the project area is amply covered;
- Take precautionary measures for health and security, in communication with relevant personnel; and
- Friendliness and sensitivity to local culture & practices.